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From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

SOUTHAMPTON

8 APR 2005

PCT

To:

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**NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

(PCT Rule 71.1)

Date of mailing
(day/month/year)

01.04.2005

Applicant's or agent's file reference
P015473WO-JDV

IMPORTANT NOTIFICATION

International application No.
PCT/EP 03/13845

International filing date (day/month/year)
27.11.2003

Priority date (day/month/year)
18.12.2002

Applicant
ORANGE S.A. ET AL.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international
preliminary examining authority:



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PATENT COOPERATION TREATY



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT PCT

(PCT Article 36 and Rule 70)

REC'D 04 APR 2005

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Applicant's or agent's file reference P015473WO-JDV		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)	
International application No. PCT/EP 03/13845	International filing date (day/month/year) 27.11.2003	Priority date (day/month/year) 18.12.2002	
International Patent Classification (IPC) or both national classification and IPC H04N1/00			
Applicant ORANGE S.A. ET AL.			
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of 8 sheets.</p>			
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the opinion</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>			
Date of submission of the demand 21.06.2004		Date of completion of this report 01.04.2005	
Name and mailing address of the international preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016		Authorized Officer Azaustre Maleno, V Telephone No. +31 70 340-4147 	

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. **PCT/EP 03/13845**

I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17))*:

Description, Pages

1-20 as originally filed

Claims, Numbers

1-32 received on 21.12.2004 with letter of 20.12.2004

Drawings, Sheets

1/10-10/10 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
☐ the language of publication of the international application (under Rule 48.3(b)).
☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority in written form.
☐ furnished subsequently to this Authority in computer readable form.
☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
☒ the claims, Nos.: 33-40
☐ the drawings, sheets:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. **PCT/EP 03/13845**

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	
	No: Claims	1-32
Inventive step (IS)	Yes: Claims	
	No: Claims	1-32
Industrial applicability (IA)	Yes: Claims	1-32
	No: Claims	

2. Citations and explanations

see separate sheet

The following documents are referred to in this communication:

D1: WO 00/68759 A (UNIV LELAND STANFORD JUNIOR, 2000-11-16)

1. The present application does not meet the criteria of Article 33(1) PCT, because the subject matter of claim 1 is not new in the sense of Article 33(2)PCT.

Document D1 discloses (the references in parenthesis applying to this document) a mobile graphics display device, comprising:

a touch sensitive display screen coupled to a touch screen processor, the touch screen processor being operable to generate first ink data representative of an input drawing action applied to the touch sensitive display screen (page 8, lines 14-26),

a graphics display and a graphics image processor operable to display images representative of at least the first ink data on the graphics display (page 11, lines 8-12), and

a data processor operable in combination with a wireless communications processor to communicate the first ink data from the mobile graphics display device to another graphics display device, to receive other ink data created by the other graphics display device, the other ink data being representative of other drawing action, the graphics image processor being operable to generate a representation of the other ink data with respect to the representation of the first ink data according to a common reference (figure 5; page 11, line 26 to page 12, line 11),

wherein the data processor is operable in combination with the wireless communications processor to communicate a presence signal providing an indication that the mobile graphics device is available to send and receive ink data to at least one other graphics display device of a predefined group of graphics display devices, to receive a presence signal from the other graphics display device, the presence signal being indicative that the other graphics display device is available to send and/or receive ink data from the mobile graphics display device, the data processor being operable in response to the presence signal to display an indication on the graphics display screen that the other device is available to send and to receive ink

data, and following receipt of the presence signal from the other graphics display device, to send and to receive the ink data to and from the other graphics display device (page 5, line 39 to page 6, line 10; page 28, lines 15-23; page 29, lines 19-23).

2. Similar arguments to those outlined in section 1 above may be levelled at closely related independent claims 14 and 15. Therefore, the application does not meet the criteria of Article 33(1) PCT, because the subject matter of said claims is not new in the sense of Article 33(2)PCT.
3. Dependent claims 2 to 13 and 16 to 32 appear not to contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty or inventive step (Articles 33(2) and 33(3) PCT) because these claims concern commonplace features which are either derivable from the documents cited in the International Search Report (see corresponding passages cited in said report) or obvious to a skilled person.

CLAIMS

1. A mobile graphics display device, comprising
5 a touch sensitive display screen coupled to a touch screen processor, the touch screen processor being operable to generate first ink data representative of an input drawing action applied to the touch sensitive display screen,
a graphics display and a graphics image processor operable to display images representative of at least the first ink data on the graphics display,
10 a wireless communications processor operable to communicate the first ink data from the mobile graphics display device to another graphics display device, and to receive other ink data created by the other graphics display device, the other ink data being representative of other drawing action, wherein the graphics image processor is operable to generate a representation of the other ink data with respect to
15 the representation of the first ink data according to a common reference.
2. A mobile graphics display device as claimed in Claim 1, wherein the mobile graphics device communicates a presence signal providing an indication that the mobile graphics device is available to send and receive ink data to at least one
20 other graphics display device.
3. A mobile graphics display device as claimed in Claim 1 or 2, wherein the data processor is operable to receive a presence signal from the other graphics display device, the presence signal being indicative that the other graphics display device is available to send and/or receive ink data from the mobile graphics display device, the data processor being operable in response to the presence signal to display
25 an indication on the graphics display screen that the other device is available to receive ink data.
- 30 4. A mobile graphics display device as claimed in Claim 1, 2 or 3, wherein the data processor is operable in response to a command received via the

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touch screen to establish a connection with the other graphics display device, the ink data produced from drawing actions from the touch screen being communicated to the other graphics display device.

5 5. A mobile graphics display device as claimed in Claim 4 or 5, wherein the data processor is operable in combination with the graphics display processor to provide an iconic representation on the display screen representing the presence of the other graphics display device.

10 6. A mobile graphics display device as claimed in any preceding Claim, wherein the data processor is operable to compression encode the ink data.

 7. A mobile graphics display device as claimed in any preceding Claim, wherein the wireless communications processor is operable in accordance with a
15 wireless mobile radio communications interface to send and receive data via a radio access interface in accordance with the interface.

 8. A mobile graphics display device as claimed in any preceding Claim, wherein the data processor is responsive to an indication from the touch screen to
20 communicate image data via the wireless communications processor to the other graphics display device.

 9. A mobile graphics display device as claimed in Claim 8, wherein the image data includes one of a URI address or an image file.

25 10. A server comprising
 a data communications processor operable to receive ink data from a first graphics display device and to receive ink data from at least one other graphics display device,

a server control processor operable to store the ink data from the first graphics display device and the ink data from the other graphics display device in a data store in accordance with a sequence of receipt, wherein

5 the server control processor is operable in combination with the data communications processor to communicate the ink data from the first graphics display device to the other graphics display device, and to communicate the ink data from the other graphics display device to the first graphics display device.

10 11. A server as claimed in Claim 10, wherein the data communications processor includes a connection control processor operable to maintain connection information identifying the first graphics display device and the other graphics display device.

15 12. A server as claimed in Claim 10 or 11, wherein the connection information includes a list of graphics display devices associated in accordance with a defined group, and the server control processor is operable to identify presence information in accordance with whether one or more of the predefined group of devices is available to exchange ink data, and consequent upon one or more devices being identified, the server control processor is operable to communicate ink data
20 from a device from the group to any of the other graphics display devices of the group which are identified as being present.

25 13. A server as claimed in Claim 10, 11 or 12, wherein the ink data communicated between the group of devices forms a communications session, and the server control processor is operable upon receipt of a request for ink data generated in association with a group from the communications session, to communicate the ink data from the session to the graphics display device requesting the ink data for the session.

14. A server as claimed in Claim 13, wherein the server control processor is operable to compression encode at least some of the ink data received from the graphics display devices.

5 15. A server as claimed in Claim 14, wherein the server control processor is operable to compression encode ink data received from the graphics display devices after a predetermined time has lapsed since generation of the ink data.

10 16. A server as claimed in Claims 10 to 15, wherein the server control processor is operable to store data representative of a time of receipt of the ink data.

15 17. A server as claimed in any of Claims 10 to 16, wherein the server control processor is responsive to a request for a previously generated drawing data, to communicate data representative of the previously generated drawing data to a requesting graphics display device.

20 18. A server plug-in operable in combination with an instant messaging server and a data store, the plug-in being operable to receive ink data from a plurality of sources and to store the ink in the data store in association with a common reference space.

19. A method of exchanging hand drawn data, the method comprising generating first ink data representative of drawing action applied to a touch sensitive display screen,

25 displaying images representative of the first ink data on a graphics display, communicating the first ink data from the mobile graphics display device to another graphics display device, via a wireless communications link and receiving other ink data from the other graphics display device, the other ink data being representative of other drawing action, and

receiving the other ink data and generating in combination with the graphics image processor a representation of the other ink data with respect to the representation of the first ink data.

5 20. A method of exchanging hand drawn data as claimed in Claim 19, comprising

communicating a presence signal providing an indication that the mobile graphics device is available to send and receive ink data to at least one other graphics display device.

10

21. A method of exchanging hand drawn data as claimed in Claim 19 or 20, comprising

receiving a presence signal from the other graphics display device, the presence signal being indicative that the other graphics display device is available to
15 send and/or receive ink data from the mobile graphics display device, and

in response to the presence signal, displaying an indication on the graphics display screen that the other device is available to receive ink data.

22. A method of exchanging hand drawn data as claimed in Claim 21,
20 comprising

providing an iconic representation on the display screen representing the presence of other graphics display devices.

23. A method of exchanging hand drawn data as claimed in any of Claims
25 19 to 22, comprising
compression encoding the ink data.

24. A method of exchanging hand drawn data as claimed in any of Claims
19 to 23, comprising
30 communicating in response to an indication from the touch screen, image data
via the wireless communications processor to the other graphics display device.

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25. A method of exchanging hand drawn data as claimed in Claim 23, wherein the image data includes one of a URI address or an image file.

5 26. A method of facilitating an exchange of ink data, the method comprising

receiving ink data from a first graphics display device and receiving ink data from at least one other graphics display device,

10 storing the ink data from the first graphics display device and the ink data from the other graphics display device in a data store in accordance with a common reference space,

communicating the ink data from the first graphics display device to the other graphics display device, and

15 communicating the ink data from the other graphics display device to the first graphics display device.

27. A method as claimed in Claim 26, comprising
maintaining connection information identifying the first graphics display device and the other graphics display device.

20 28. A method as claimed in Claim 27, wherein the connection information includes a list of graphics display devices associated in accordance with a defined group, and the method comprises

25 identifying presence information in accordance with whether one or more of the predefined group of devices is available to exchange ink data, and consequent upon one or more devices being identified,

communicating ink data from a user from the group to any of the other graphics display devices of the group which are identified as being present.

29. A method as claimed in Claim 28, wherein the ink data communicated between the group of devices forms a communications session, the method comprising

communicating the ink data from the session to a graphics display device
5 requesting the ink data for the session.

30. A method as claimed in Claim 29, comprising
compression encoding at least some of the ink data received from the graphics
display devices.

10

31. A method as claimed in Claim 30, comprising
compression encoding ink data received from the graphics display devices
after a predetermined time has lapsed since generation of the ink data.

15

32. A method as claimed in any of Claims 26 to 31, comprising
communicating data representative of the previously generated drawing to a
requesting graphics display device, in response to a request for a previously generated
drawing data.

20

33. A pair of graphics display devices, each device of the pair being a
mobile graphics display device according to any of Claims 1 to 9, each being
provided with a Subscriber Identity Module associated with the same operator.

25

34. A signal representing first ink data produced by a mobile graphics
device according to any of Claims 1 to 9.

35. A data carrier representing a signal as claimed in Claim 34.

30

36. A signal representing a combination of ink data and non-ink format
data representative of an image or picture data, produced by a mobile graphics display
device according to any of Claims 1 to 9.

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37. A signal as claimed in Claim 36, wherein the image data is one of a Universal Resource Identifier or an image file.

5 38. A computer program providing computer executable instructions, which when loaded onto a computer configures the computer to operate as a server according to any of Claims 10 to 17, or a server plug-in according to Claim 18.

10 39. A computer program providing computer executable instructions, which when loaded on to a computer causes the computer to perform the method according to any of Claims 19 to 32.

15 40. A computer program product having a computer readable medium with recorded thereon information signals representative of the computer program claimed in Claims 38 or 39.

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